output layer _6

7a

7b

hidden _4
layer

S

S

input
layer

2

3

information flow

Fig. 1

Binary coded
patterns

$S = 000-00--00 | 000-00-000 | \ldots$

$N = $

Set of input
patterns
(peptide
sequences)

S
N
P
S
F
R
P
F
A

Antium-Tracer Peptide Binding

mean square error

0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

100   1000   2000   3000   4000   5000   6000   7000   8000   9000   10000

time [epochs]

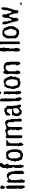— error on training set
--- error on testing set

Fig 2

Fig. 3

Set of input
patterns
(peptide
sequences)

S
N
P
S
F
R
P
F
A

Binary coded
patterns
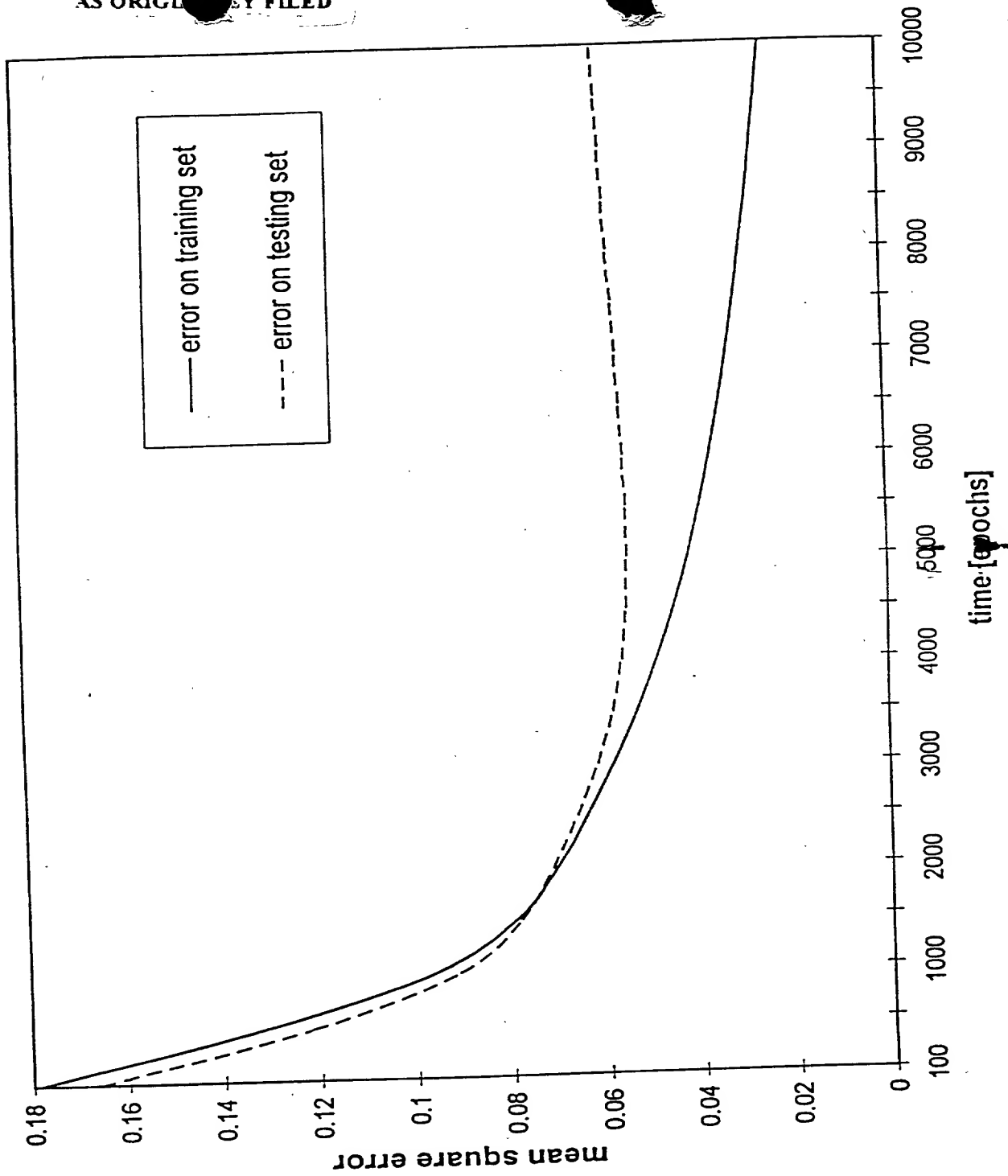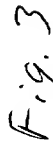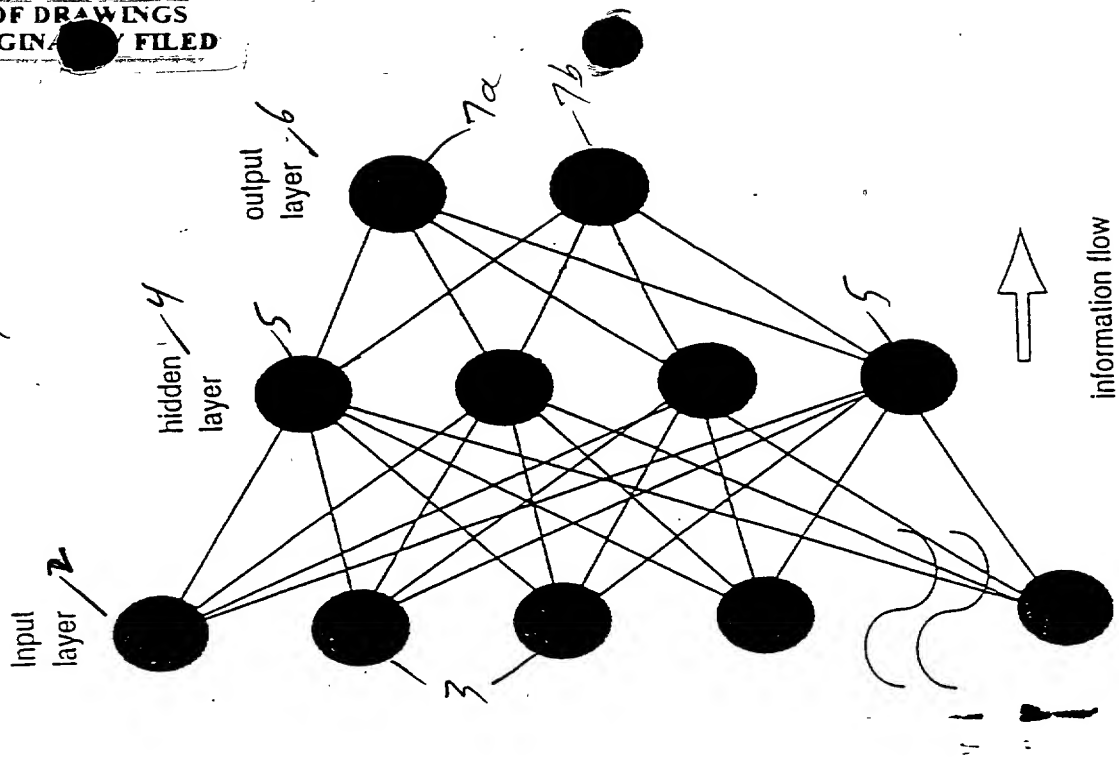
$$S = 000 - 00 - - 00 \mid 000 - 00 - 000 \mid \ldots$$

$$N =$$

Fig. 1

Input
layer

hidden
layer

output
layer

information flow

Fig. 2

Legend: error on training set (solid line), error on testing set (dashed line). Axes: mean square error (vertical) from 0 to 0.18; time [epochs] (horizontal) from 100 to 10000.

Fig. 3

Legend:
- VSV8
- Pep 2
- Pep 3
- Pep 4
- Pep 5
- Pep 6
- Pep 7
- Pep 8
- Pep 9
- Pep 10
- Pep 11

X-axis: -Log [Peptide]

Y-axis: Fraction of Maximum Tracer Peptide Binding